

FIG. 1

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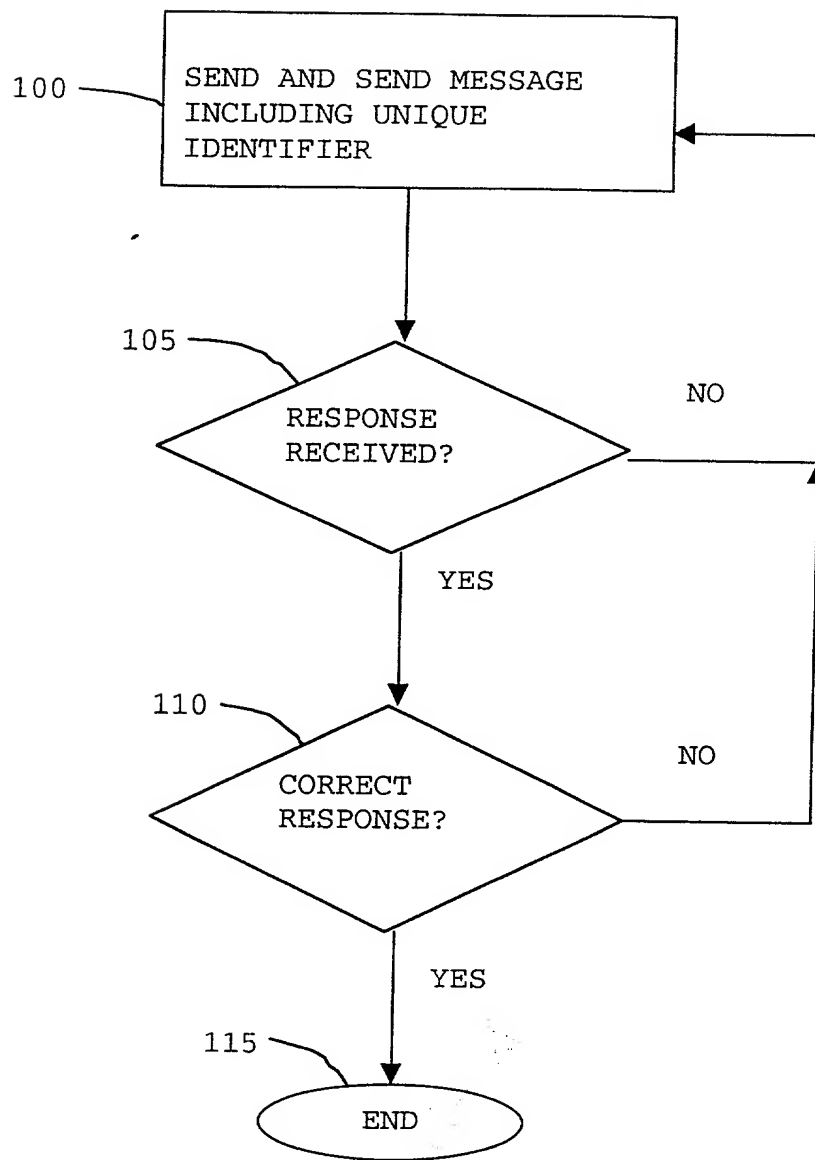


FIG. 2

150 ON-LINE CA SERVER
RECEIVES SIGNED
CLIENT MESSAGE AND
BECOMES DELEGATE

155 DELEGATE FORMS AND SIGNS
REQUEST MESSAGE INCLUDING
CLIENT MESSAGE AND SENDS TO
SERVERS

160 ON-LINE CA SERVER RECEIVES
MESSAGE, CHECKS SIGNATURE
AND PROCESSES CONTENT

165
UPDATE QUERY
QUERY OR
UPDATE?

175
ON-LINE CA SERVER
AND DELEGATE EXECUTE
THRESHOLD SIGNATURE
PROTOCOL AND SIGN
NEW CERTIFICATE

170
ON-LINE CA SERVER
SENDS SIGNED
MESSAGE TO DELEGATE
CONTAINING
CERTIFICATE

180
DELEGATE FORWARDS NEW
CERTIFICATE TO ALL ON-
LINE SERVERS/SERVERS
STORE AND RETURN REPLY

185
AFTER REPLIES RECEIVED
FROM QUORUM, DELEGATE
USES THRESHOLD SIGNATURE
PROTOCOL TO SIGN RESPONSE

FIG. 3